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- Association for Computing Machinery Meetings: Houston, Texas, June 19 to 21, 1957, Program, Titles, and Abstracts, 6/7 (July), 18;
Los Angeles Chapter Meeting, Los Angeles, Mar. 1, 1957, "New Computers: A Report from the Manufacturers," 6/4 (Apr.), 30;
Los Angeles, March 1, 1957, Program and Titles, 6/1 (Jan., Part I), 28.
Automata, "Robots and Automata: A Short History," by James T. Culbertson, 6/3 (Mar.), 32;
Bibliography, 6/6 (Apr.), 20
Automata, "Self-Repairing and Reproducing Automata," by Richard L. Meier, 5/12 (Dec. 1956), 10
"Automatic Computing Machinery—List of Types," (cumulative), 6/3 (Mar.), 22
"Automatic Search of Library Documents," by S. Richard Moyer, 6/5 (May), 24
Automation, "Airline Automation: A Major Step," by C. E. Ammann, 6/8 (Aug.), 10
Automation, "Education for Automation," by A. S. Householder, 6/1 (Jan., Part II), 51
Automation, "Industry and the Automated Future: Problems Along the Way," by John Diebold, 6/2 (Feb.), 14

B: Banking, "The Market for Computers in Banking: Report No. 2," by Ed Burnett and Leland Hewitt, 6/9 (Sept.), 6

Barashenkov, V., "Exchanges of Information," 6/9 (Sept.), 26

"Barriers to Communication," (in The Editor's Notes), 6/5 (May), 6

Bauer, Walter F., "Modern Large Scale Computer System Design," 6/1 (Jan., Part I), 8

"Beckman Data Processing System," Beckman Instruments, Inc., 5/12 (Dec. 1956), 33

Bell Telephone Laboratories, "Supermendur—An Improved Magnetic Alloy" 6/3 (Mar.), 14

Bell Telephone Laboratories, "Transistorized Magnetic Core Memory," 6/1 (Jan., Part I), 26

Bendix Computer Div., "Electronic Roulette Demonstrates Computers" 6/3 (Mar.), 13;

"A Three-Axis Simulator for Controlled Flight Test of Airborne Systems," 6/5 (May), 18

Bendix Pacific Div., "Air Traffic Control System," 6/2 (Feb.), 32

Berkeley, Edmund C., "Computer Market Survey—Report No. 1," 6/5 (May), 8; "Computer People: Master File," 6/2 (Feb.), 50; "Satellites and Computers— and Psychology," 6/11 (Nov.), 6

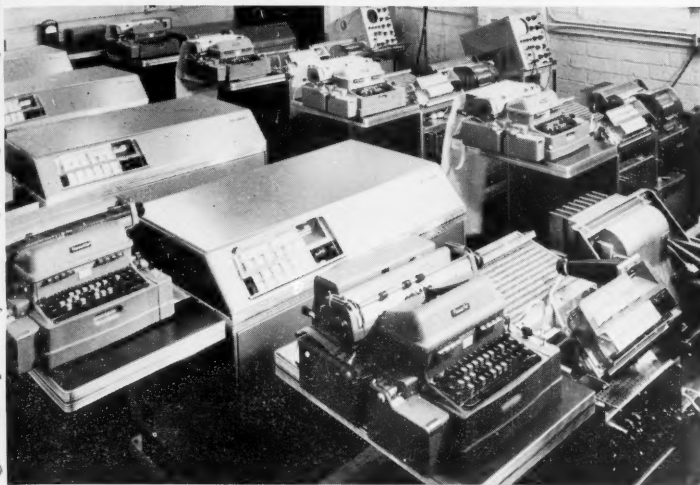
Bessho, Teruhiko, "Glossary of Computer Terms: Comments," 5/12 (Dec. 1956), 30

"A Big Decision: Lease or Buy?," by Theodore Labiner, 6/10 (Oct.), 6

"Books and Other Publications," 5/12 (Dec. 1956), 34; 6/2 (Feb.), 34; 6/7 (July), 27; 6/8 (Aug.), 24

Booth, Andrew D., "Use of a Computer For Certain Operations of Classification," 6/4 (Apr.), 18

Boundary value problems, "The Solution of Boundary Value Problems on a Reac Analog Computer," by M. Yanowitch, 6/2 (Feb.), 26



Above is a view of the assembling of a small-size yet powerful automatic electronic digital computer, the Royal Precision LGP-30, at the plant of Librascope, Glendale, Calif., subsidiary of General Precision Equipment Corp., who have joined with Royal McBee Corp., Port Chester, N.Y., to market the LGP-30.

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sures Resulting From a Break in High Pressure-High Temperature Water Lines," "Simulation of Temperature Transients Resulting From Compartment Ventilation Failure," "Brake Drum Temperature Distribution," Berkeley Ease analog. B. L. Jones, Senior Design Supervisor, Atomic Power Research Department, Newport News Shipbuilding and Dry Dock Company, Newport News, Virginia.

"Pipe Stress Analysis," "Spectroscopy Analysis," "Gyro Sea Test Results," "Transistor Reliability Study," Univac 1, Capt. A. L. Rosenstein, Industrial Engineering Officer, New York Naval Shipyard, Naval Base, Brooklyn 1, New York.

"N. A. Hydrostatic Curves," "Section Modulus Tables," and "Weight and Moment Summaries," IBM 650, Warren C. Galle, Section Head, Engineering Computation Section, Portsmouth Naval Shipyard, Portsmouth, New Hampshire.

"Tank Capacities," IBM 604, Joe D. Smith, Assistant Engineer, Avondale Marine Ways, Inc., P.O. Box 1030, New Orleans, Louisiana.

"Wave Spectrum of 125 M.P.H. Winds," "Wave Forces of 125 M.P.H. Winds on Drilling Structures," "Force Analysis of Space Structures With 15 Redundant Elements," "Determining of Section Moduli of Plate and Angle Combinations," and "Development of S/A of Plate and Angle Combinations," IBM 604, M. J. Wood, Engineer, Design Department or J. R. Fahey, Manager, Machine Department, Higgins, Inc., P.O. Box 8001, New Orleans, Louisiana.

The above does not include all of the shipyards which are using high speed automatic computers. A few of the users did not answer the questionnaire while some who listed problems they are solving did not indicate that they will release information about them.

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Brown, A.F.R., and the Editor, "On Language Translation," 6/9 (Sept.), 3
Brown, Bo, "Education and Computers," 6/3 (Mar.), 44

Burnett, Ed, "Industry News Notes," 6/8 (Aug.), 26; 6/9 (Sept.), 22; 6/10 (Oct.), 24; 6/11 (Nov.), 24

Burnett, Ed, "The Market for Computers in the Oil and Natural Gas Industry (Report No. 3)," 6/11 (Nov.), 10; "Oil and Natural Gas: The Magnitude of the Industry," 6/11 (Nov.), 15

Burnett, Ed, and Leland Hewitt, "The Market for Computers in Banking: Report No. 2," 6/9 (Sept.), 6

Business automatic data processing, "Reliability in Business Automatic Data Processing," by Herbert T. Glantz, 6/5 (May), 20

"Buyers' Guide for the Computer Field: Products and Services for Sale or Rent: List of Headings," 6/6 (June), 41

C: Calhoun, Everett S., "New Computer Developments Around the World," 6/2 (Feb.), 10

"Cam Profile Design With the Univac 120," by Louis D. Grey, 6/4 (Apr.), 10

Caplan, L. N., "Division of Labor in Scientific Digital Computer Service Facilities," 6/4 (Apr.), 6

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Chapin, Ned, "Are Automatic Computer Speeds Faster Than Business Needs?" 6/10 (Oct.), 12

Chess, "Experiments in Chess on Electronic Computing Machines," by P. Stein and S. Ulam, 6/9 (Sept.), 14

Clark, Wilbur E., "Computer Applications to Poultry Feed," 6/8 (Aug.), 9

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Clarke, Arthur C., "The Nine Billion Names of God," 6/2 (Feb.), 24
 Classification, "Use of a Computer for Certain Operations of Classification," by Andrew D. Booth, 6/4 (Apr.), 18
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 Communications system, "Supplementing Electronic Equipment with a Modern Communications System," by Monroe M. Koontz, 6/4 (Apr.), 12
 Components of Automatic Computing Machinery—List of Types," (cumulative), 6/3 (Mar.), 24
 "Computation for an Earth Satellite," by Neil D. Macdonald, 6/2 (Feb.), 6
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 The Computer Directory and Buyers' Guide, 1957," 6/6 (June), 6
 The Computer Field: Products and Services for Sale or Rent—List of Headings," 6/3 (Mar.), 28
 Computer market, "Estimate of the Computer Market—Summary of Replies March 8 to April 15, 1957," 6/5 (May), 10
 Computer Market Survey—Report No. 1," by Edmund C. Berkeley, 6/5 (May), 8
 Computer People: Master File," by Edmund C. Berkeley, 6/2 (Feb.), 50
 Computer service facilities, "Division of Labor in Scientific Digital Computer Service Facilities," by L. N. Caplan, 6/4 (Apr.), 6
 Computer speeds, "Are Automatic Computer Speeds Faster Than Business Needs?," by Ned Chapin, 6/10 (Oct.), 12
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 The Computer's Challenge to Education," by Clarence B. Hilberry, 5/12 (Dec. 1956), 16
 Conferences — SEE: Association for Computing Machinery;
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 Fourth Conference on High Speed Computers;
 Instruments and Regulators Conference;
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 Second National Simulation Conference;
 Symposium on Systems for Information Retrieval, Western Reserve University, School of Library Science;
 Western Joint Computer Conference Controversy" (in The Editor's Notes), 6/11 (Nov.), 3

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